

(19) World Intellectual Property Organization
International Bureau



12 OCT 2004



(43) International Publication Date
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number
WO 03/088282 A1

(51) International Patent Classification⁷: **H01F 5/00**

(21) International Application Number: PCT/KR03/00744

(22) International Filing Date: 12 April 2003 (12.04.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0019934 12 April 2002 (12.04.2002) KR
10-2003-0023238 12 April 2003 (12.04.2003) KR

(71) Applicant and

(72) Inventor: **YOON, Jongu** [KR/KR]; #406, Inhyang Apt.,
191-1, Kanseok-2-dong, Namdong-gu, 405-803 Incheon
(KR).

(74) Agent: **KIM, Inhan**; 6th Floor, Kyungmin Bldg., 18-3,
Jamwon-dong, Seocho-gu, Seoul 137-903 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

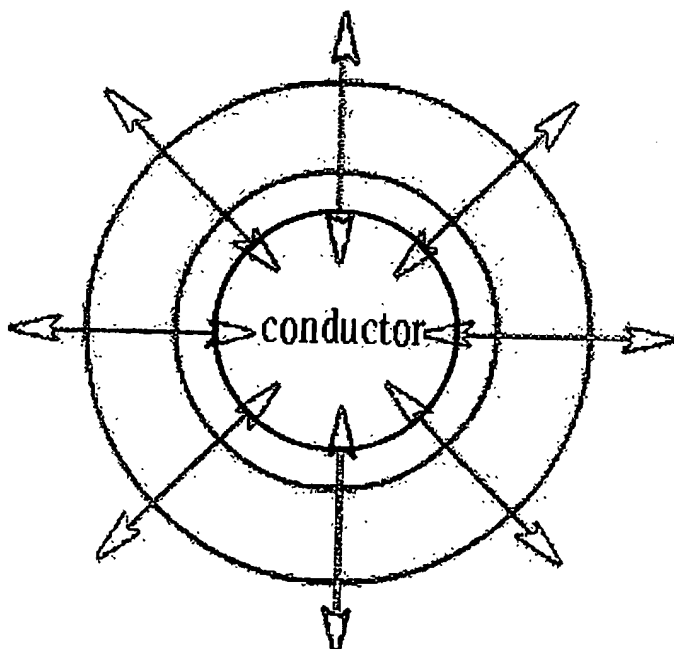
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENAMELED WIRE HAVING MAGNETIC RELUCTANCE PROPERTIES AND PREPARATION METHOD THEREOF, AND COIL USING THE SAME AND PREPARATION METHOD THEREOF



(57) Abstract: Disclosed herein is a magnetoresistant enameled wire coated with a material which shows improved conductivity by reducing resistance of a conductor since the wire exhibits effects similar to anisotropic magnetoresistance of magnetic materials when manufactured in the form of a coil. The material also shows effects similar to magnetoresistance exhibiting a strong magnetic flux density. Disclosed further are a method for manufacturing the magnetoresistant enameled wire, a magnetoresistant coil using the magnetoresistant wire, and a method for manufacturing the magnetoresistant coil.



WO 03/088282 A1